- 1. Excess pressure in steam generator is p = (1+N)/10 bar while barometrical pressure is B1 = (725+N) mmHg. Define excess pressure in steam generator if barometric pressure would rise up to B2 = (785+N) mmHg and absolute pressure in boiler would be the same.
- Volume of air vessel is (0,3+N/100) m³, density of air in it is 2,86 kg/m³.
 Define the mass of air into vessel.
- Pressure in steam generator according to manometer is (13+N/5) MPa. Define absolute pressure in steam generator if atmospheric pressure is (1+N/100) atm.
- 4. Vacuumeter shows underpressure (N/50) kgf/cm². Define absolute pressure into the vessel if atmospheric pressure is 100 kPa?
- 5. Define the mass of gas with V=N gallon, if its density is $1,05 \text{ kg/m}^3$?
- 6. Manometer on steam generator shows P = (0,4+N/100) mPa. Define absolute pressure into steam generator if barometer shows (94+N) kPa.
- 7. Pressure into condenser of steam turbine is (5+N) kPa. Atmospheric air pressure is (100-N/10) kPa. Define underpressure into condenser.
- 8. The temperature of outside air is (20+N) °C. Define if the Freon HCFC-123 will boil at this temperature if its boiling point is 82.08 F.
- 9. Would N pd of water at 20 °C and atmospheric pressure boil if it will be supplied with 50*N Btu of thermal energy?
- 10. The vehicle engine has (100+N) horse power. How much energy (in J) will it consume at maximal power with efficiency 50 % for 1 minute?*N here is number of your variant.*